## AMENDMENTS TO THE CLAIMS

- 1. (Original) An orthoalkylation catalyst for phenols, produced by calcining a catalyst precursor comprising basic magnesium carbonate (a) and magnesium oxide (b), wherein the basic magnesium carbonate (a) and the magnesium oxide (b) are mixed together at a weight ratio ((a)/(b)) of 20/80 to 80/20.
- 2. (Original) The orthoalkylation catalyst for phenols as claimed in claim 1, wherein the basic magnesium carbonate (a) is heavy magnesium carbonate.
- 3. (Currently Amended) The orthoalkylation catalyst for phenols as claimed in claim 1 or 2, wherein the magnesium oxide (b) is light burned magnesia.
- 4. (Currently Amended) The orthoalkylation catalyst for phenols as claimed in claim 1, wherein the catalyst precursor further comprises manganese oxalate (c) in an amount of 0.1 to 10% by weight based on the total (100% by weight) of basic magnesium carbonate (a) and magnesium oxide (b) claim 2, wherein the magnesium oxide (b) is light burned magnesia.

- 5. (Currently Amended) The orthoalkylation catalyst for phenols as claimed in claim 1, wherein the catalyst precursor is molded before calcination and the calcination is performed at 300 to 500°C in the absence of molecular oxygen further comprises manganese oxalate (c) in an amount of 0.1 to 10% by weight based on the total (100% by weight) of basic magnesium carbonate (a) and magnesium oxide (b).
- 6. (Currently Amended) The orthoalkylation catalyst for phenols as claimed in any of claims 1 to 5, wherein the orthoalkylation catalyst has a catalytic surface area of 25 to 500  $m^2/g$  claim 1, wherein the catalyst precursor is molded before calcination and the calcination is performed at 300 to 500°C in the absence of molecular oxygen.
- 7. (Currently Amended) A process for producing an orthoalkylated phenol, which comprises performing a vapor phase reaction of a phenol with an alkyl alcohol in the presence of the orthoalkylation catalyst claimed in any of claims 1 to 6 so that an orthoalkylated phenol is obtained The orthoalkylation catalyst for phenols as claimed in claim 1, wherein the weight ratio ((a)/(b)) is 20/80 to 60/40.

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- 8. (New) The orthoalkylation catalyst for phenols as defined in any one of claims 1 to 7, wherein the orthoalkylation catalyst has a catalytic surface area of 25 to 500  $\rm m^2/\rm g$ .
- 9. (New) The orthoalkylation catalyst for phenols as defined in claim 1, wherein the catalyst precursor is formed by adding water to a mixture comprising magnesium carbonate (a) and magnesium oxide (b).
- 10. (New) The orthoalkylation catalyst for phenols as defined in claim 1, wherein the catalyst precursor is formed by adding water to a mixture comprising magnesium carbonate (a) and magnesium oxide (b).
- 11. (New) A process for producing an orthoalkylated phenol, which comprises performing a vapor phase reaction of a phenol with an alkyl alcohol in the presence of the orthoalkylation catalyst according to claim 1 so that an orthoalkylated phenol is obtained.
- 12. (New) A process for producing an orthoalkylated phenol, which comprises performing a vapor phase reaction of a phenol with an alkyl alcohol in the presence of the orthoalkylation catalyst according to claim 1 so that an orthoalkylated phenol is obtained.

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13. (New) A process for producing an orthoalkylated phenol, which comprises performing a vapor phase reaction of a phenol with an alkyl alcohol in the presence of the orthoalkylation catalyst according to claim 9 so that an orthoalkylated phenol is obtained.